

CLAIMS

1.- A gas valve with linear regulation for gas burners, which comprises:

- a valve body, said valve body comprising
 - a gas chamber,
 - an inlet conduit communicating with said gas chamber, and
 - an exit conduit communicating with said gas chamber;
- a cone housed inside said gas chamber so that a lower part of said gas chamber remains empty, said cone having a maximum flow setting and a minimum flow setting, and said cone comprising
 - a maximum flow hole,
 - a diagonal regulation groove communicating with said maximum flow hole,
 - a minimum flow hole,
 - a minimum connection radial groove communicating with said minimum flow hole, and
 - a lower chamber, the maximum flow hole, the diagonal regulation groove and the minimum flow hole communicating with said lower chamber; and
- a rotating transmission shaft via which said cone rotates;

wherein

- said inlet conduit is a diagonal channel communicating with the lower part of the gas chamber, the lower chamber of the cone communicating with said lower part of the gas chamber; and
- said exit conduit comprises a connection hole communicating with the gas chamber, said connection hole being aligned with the maximum flow hole when the cone is in the maximum flow setting and said connection hole being aligned with the minimum flow hole when the cone is in the minimum flow setting.

2.- The valve according to claim 1, wherein the maximum flow hole of the cone has a substantially trunco-conical surface that forms a chamfer.

3.- The valve according to claim 1, wherein the minimum flow hole has a grease retention ring.

4.- The valve according to claim 1, wherein there is not any kind of separation between the connection hole of the exit conduit and the gas chamber.